

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/719,587 A  
Source: JFW16  
Date Processed by STIC: 08/17/2006

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 08/17/2006

PATENT APPLICATION: US/10/719,587A

TIME: 11:06:15

Input Set : A:\55862-CIP(46342)-Amended.txt  
 Output Set: N:\CRF4\08172006\J719587A.raw

3 <110> APPLICANT: Takeda Chemical Industries, Ltd.  
 5 <120> TITLE OF INVENTION: Novel G protein-coupled receptor protein, its DNA and ligand  
 thereof  
 7 <130> FILE REFERENCE: 2568US0P-CIP  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/719,587A  
 C--> 9 <141> CURRENT FILING DATE: 2003-11-21  
 9 <150> PRIOR APPLICATION NUMBER: US 09/831,758  
 10 <151> PRIOR FILING DATE: 2001-05-11  
 12 <150> PRIOR APPLICATION NUMBER: PCT/JP99/06283  
 13 <151> PRIOR FILING DATE: 1999-11-11  
 15 <150> PRIOR APPLICATION NUMBER: JP 10-323759  
 16 <151> PRIOR FILING DATE: 1998-11-13  
 18 <150> PRIOR APPLICATION NUMBER: JP 11-060030  
 19 <151> PRIOR FILING DATE: 1999-03-08  
 21 <150> PRIOR APPLICATION NUMBER: JP 11-106812  
 22 <151> PRIOR FILING DATE: 1999-04-14  
 24 <150> PRIOR APPLICATION NUMBER: JP 11-166672  
 25 <151> PRIOR FILING DATE: 1999-06-14  
 27 <150> PRIOR APPLICATION NUMBER: JP 11-221640  
 28 <151> PRIOR FILING DATE: 1999-08-04  
 30 <150> PRIOR APPLICATION NUMBER: JP 11-259818  
 31 <151> PRIOR FILING DATE: 1999-09-14  
 33 <160> NUMBER OF SEQ ID NOS: 66  
 35 <210> SEQ ID NO: 1  
 36 <211> LENGTH: 180  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Human  
 40 <400> SEQUENCE: 1  
 41 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr Leu Ala Thr  
 42 1 5 10 15  
 43 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met  
 44 20 25 30  
 45 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg  
 46 35 40 45  
 47 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp  
 48 50 55 60  
 49 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys  
 50 65 70 75 80  
 51 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val  
 52 85 90 95  
 53 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser  
 54 100 105 110  
 55 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro  
 56 115 120 125

(P9-6)

## RAW SEQUENCE LISTING

DATE: 08/17/2006

PATENT APPLICATION: US/10/719,587A

TIME: 11:06:15

Input Set : A:\55862-CIP(46342)-Amended.txt

Output Set: N:\CRF4\08172006\J719587A.raw

57 Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Val Cys Arg Met Leu  
 58 130 135 140  
 59 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu  
 60 145 150 155 160  
 61 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln  
 62 165 170 175

63 Lys Gln Ser Arg

64 .. 180

66 &lt;210&gt; SEQ ID NO: 2

67 &lt;211&gt; LENGTH: 540

68 &lt;212&gt; TYPE: DNA

69 &lt;213&gt; ORGANISM: Human

71 &lt;400&gt; SEQUENCE: 2

72 atggaaatttttcataaaa actattcatt ttattgactt tagccacttc aagcttgta 60  
 73 acatcaaaca ttttttgtgc agatgaatta gtgtatgtcca atcttcacag caaagaaaaat 120  
 74 tatgacaaaat attctgagcc tagaggatac ccaaaaagggg aaagaagctt caattttag 180  
 75 gaattaaaag attggggacc aaaaaatgtt attaagatga gtacacctgc agtcaataaa 240  
 76 atgccacact cttcgccaa cttgcattt agattttggaa ggaacgttca agaagaaaaga 300  
 77 agtgctggag caacagccaa cctgcctctg agatctgga agaaaatgtt ggtgagcctc 360  
 78 gtgagacgtt ttcctaacct gccccaaagg tttgggagaa caacaacagc caaaagtgtc 420  
 79 tgaggatgc tgagtgtt gtgtcaaggg tccatgcatt caccatgtgc caatgactta 480  
 80 ttttactcca tgacctgcca gcaccaagaa atccagaatc ccgatcaaaa acagtcaagg 540

82 &lt;210&gt; SEQ ID NO: 3

83 &lt;211&gt; LENGTH: 27

84 &lt;212&gt; TYPE: DNA

85 &lt;213&gt; ORGANISM: Artificial Sequence

87 &lt;220&gt; FEATURE:

88 &lt;223&gt; OTHER INFORMATION: primer

90 &lt;400&gt; SEQUENCE: 3

91 gggctgcaca tagagactta atttttag

27

93 &lt;210&gt; SEQ ID NO: 4

94 &lt;211&gt; LENGTH: 27

95 &lt;212&gt; TYPE: DNA

96 &lt;213&gt; ORGANISM: Artificial Sequence

98 &lt;220&gt; FEATURE:

99 &lt;223&gt; OTHER INFORMATION: primer

101 &lt;400&gt; SEQUENCE: 4

102 ctagaccacc tctatataac tgcccat

27

104 &lt;210&gt; SEQ ID NO: 5

105 &lt;211&gt; LENGTH: 30

106 &lt;212&gt; TYPE: DNA

107 &lt;213&gt; ORGANISM: Artificial Sequence

109 &lt;220&gt; FEATURE:

110 &lt;223&gt; OTHER INFORMATION: primer

112 &lt;400&gt; SEQUENCE: 5

113 gcacatagag acttaattttt agattttagac

30

115 &lt;210&gt; SEQ ID NO: 6

116 &lt;211&gt; LENGTH: 27

117 &lt;212&gt; TYPE: DNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/719,587A

DATE: 08/17/2006

TIME: 11:06:15

Input Set : A:\55862-CIP(46342)-Amended.txt

Output Set: N:\CRF4\08172006\J719587A.raw

118 <213> ORGANISM: Artificial Sequence  
 120 <220> FEATURE:  
 121 <223> OTHER INFORMATION: primer  
 123 <400> SEQUENCE: 6  
 124 catgcactt gactggttc caggtat 27  
 126 <210> SEQ ID NO: 7  
 127 <211> LENGTH: 27  
 128 <212> TYPE: DNA  
 129 <213> ORGANISM: Artificial Sequence  
 131 <220> FEATURE:  
 132 <223> OTHER INFORMATION: primer  
 134 <400> SEQUENCE: 7  
 135 cagcttagg gacaggctcc aggttcc 27  
 137 <210> SEQ ID NO: 8  
 138 <211> LENGTH: 196  
 139 <212> TYPE: PRT  
 140 <213> ORGANISM: Human  
 142 <400> SEQUENCE: 8  
 143 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr Leu Ala Thr  
     1               5                       10                       15  
 144 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met  
     20                       25                       30  
 145 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg  
     35                       40                       45  
 146 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp  
     50                       55                       60  
 147 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys  
     65                       70                       75                       80  
 148 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val  
     85                       90                       95  
 149 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser  
     100                       105                       110  
 150 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro  
     115                       120                       125  
 151 Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Val Cys Arg Met Leu  
     130                       135                       140  
 152 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu  
     145                       150                       155                       160  
 153 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln  
     165                       170                       175  
 154 Lys Gln Ser Arg Arg Leu Leu Phe Lys Lys Ile Asp Asp Ala Glu Leu  
     180                       185                       190  
 155 Lys Gln Glu Lys  
     195  
 156 <210> SEQ ID NO: 9  
 157 <211> LENGTH: 588  
 158 <212> TYPE: DNA  
 159 <213> ORGANISM: Human  
 160 <400> SEQUENCE: 9

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/719,587A

DATE: 08/17/2006  
TIME: 11:06:15

Input Set : A:\55862-CIP(46342)-Amended.txt  
Output Set: N:\CRF4\08172006\J719587A.raw

176 atggaaatata	tttcatcaaa	actattcatt	ttattgactt	tagccacttc	aagcttgtta	60
177 acatcaaaca	tttttgtgc	agatgaat	gtgatgtcca	atcttcacag	caaagaaaat	120
178 tatgacaaat	attctgagcc	tagaggatac	ccaaaagggg	aaagaaggct	caattttgag	180
179 gaattaaaaag	attggggacc	aaaaaatgtt	attaagatga	gtacacgtgc	agtcaataaa	240
180 atgccacact	ccttcgccaa	cttgcatt	agatttggga	ggaacgttca	agaagaaaga	300
181 agtgctggag	caacagccaa	cctgcctctg	agatctggaa	gaaatatgga	ggtgagcctc	360
182 gtgagacgtg	tccctaacct	gccccaaagg	tttgggagaa	caacaacagc	caaaagtgtc	420
183 tgcaggatgc	tgagtgattt	gtgtcaagga	tccatgcatt	caccatgtgc	caatgactta	480
184 ttttactcca	tgacctgcca	gcaccaagaa	atccagaatc	ccgatcaaaa	acagtcaagg	540
185 agactgctat	tcaagaaaat	agatgatgca	gaattgaaac	aagaaaaaa		588
187 <210> SEQ ID NO:	10					
188 <211> LENGTH:	27					
189 <212> TYPE:	DNA					
190 <213> ORGANISM:	Artificial Sequence					
192 <220> FEATURE:						
193 <223> OTHER INFORMATION:	primer					
195 <400> SEQUENCE:	10					
196 gccttagagga	gatctaggct	gggagga			27	
198 <210> SEQ ID NO:	11					
199 <211> LENGTH:	27					
200 <212> TYPE:	DNA					
201 <213> ORGANISM:	Artificial Sequence					
203 <220> FEATURE:						
204 <223> OTHER INFORMATION:	primer					
206 <400> SEQUENCE:	11					
207 gggaggaaca	tggaagaaga	aaggagc			27	
209 <210> SEQ ID NO:	12					
210 <211> LENGTH:	27					
211 <212> TYPE:	DNA					
212 <213> ORGANISM:	Artificial Sequence					
214 <220> FEATURE:						
215 <223> OTHER INFORMATION:	primer					
217 <400> SEQUENCE:	12					
218 gatggtaat	gcatggactg	ctggagc			27	
220 <210> SEQ ID NO:	13					
221 <211> LENGTH:	27					
222 <212> TYPE:	DNA					
223 <213> ORGANISM:	Artificial Sequence					
225 <220> FEATURE:						
226 <223> OTHER INFORMATION:	primer					
228 <400> SEQUENCE:	13					
229 ttccctccaa	atctcagtgg	caggttg			27	
231 <210> SEQ ID NO:	14					
232 <211> LENGTH:	196					
233 <212> TYPE:	PRT					
234 <213> ORGANISM:	Bovine					
236 <400> SEQUENCE:	14					
237 Met Glu Ile Ile Ser Leu Lys Arg Phe Ile Leu Leu Met Leu Ala Thr						
238 1	5	10			15	

## **RAW SEQUENCE LISTING**

DATE: 08/17/2006

PATENT APPLICATION: US/10/719,587A

TIME: 11:06:15

Input Set : A:\55862-CIP(46342)-Amended.txt

Output Set: N:\CRF4\08172006\J719587A.raw

239 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Thr Asp Glu Ser Arg Met  
 240               20                           25                           30  
 241 Pro Asn Leu Tyr Ser Lys Lys Asn Tyr Asp Lys Tyr Ser Glu Pro Arg  
 242               35                           40                           45  
 243 Gly Asp Leu Gly Trp Glu Lys Glu Arg Ser Leu Thr Phe Glu Glu Val  
 244               50                           55                           60  
 245 Lys Asp Trp Ala Pro Lys Ile Lys Met Asn Lys Pro Val Val Asn Lys  
 246 65                                       70                           75                           80  
 247 Met Pro Pro Ser Ala Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Met  
 248               85                           90                           95  
 249 Glu Glu Glu Arg Ser Thr Arg Ala Met Ala His Leu Pro Leu Arg Leu  
 250               100                           105                           110  
 251 Gly Lys Asn Arg Glu Asp Ser Leu Ser Arg Trp Val Pro Asn Leu Pro  
 252               115                           120                           125  
 253 Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Ile Thr Lys Thr Leu  
 254               130                           135                           140  
 255 Ser Asn Leu Leu Gln Gln Ser Met His Ser Pro Ser Thr Asn Gly Leu  
 256 145                                       150                           155                           160  
 257 Leu Tyr Ser Met Ala Cys Gln Pro Gln Glu Ile Gln Asn Pro Gly Gln  
 258               165                           170                           175  
 259 Lys Asn Leu Arg Arg Arg Gly Phe Gln Lys Ile Asp Asp Ala Glu Leu  
 260               180                           185                           190  
 261 Lys Gln Glu Lys  
 262               195  
 264 <210> SEQ ID NO: 15  
 265 <211> LENGTH: 588  
 266 <212> TYPE: DNA  
 267 <213> ORGANISM: Bovine  
 269 <400> SEQUENCE: 15  
 270 atggaaatta tttcataaaa acgattcatt ttattgtatgt tagccacttc aagcttgt  
 271 acatcaaaca tcttctgcac agacgaatca aggatccccca atctttacag caaaaaga  
 272 tatgacaaaat attccgagcc tagaggagat ctaggctggg agaaagaaag aagtctta  
 273 tttgaagaag taaaagattt ggctccaaaa attaagatga ataaacctgt agtcaaca  
 274 atgccacctt ctgcagccaa cctgccactg agatttggga ggaacatgga agaagaaaa  
 275 agcaactaggg cgatggccca cctgcctctg agactcgaa aaaatagaga ggacagcc  
 276 tccagatggg tcccaaattt gcggcagagg tttgaaagaa caacaacagc caaaagca  
 277 accaagaccc tgagtaattt gctccagcag tccatgcatt caccatctac caatgggc  
 278 ctctactcca tggcctgcca gcggcaagaa atccagaatc ctggtcaaaa gaacctaa  
 279 agacggggat tccagaaaaat agatgtgca gaattgaaac aagaaaaaa  
 281 <210> SEQ ID NO: 16  
 282 <211> LENGTH: 27  
 283 <212> TYPE: DNA  
 284 <213> ORGANISM: Artificial Sequence  
 286 <220> FEATURE:  
 287 <223> OTHER INFORMATION: primer  
 289 <400> SEQUENCE: 16  
 290 ccctggggct tcttctgtct tctatgt  
 292 <210> SEQ ID NO: 17  
 293 <211> LENGTH: 26

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 08/17/2006  
PATENT APPLICATION: US/10/719,587A               TIME: 11:06:16

Input Set : A:\55862-CIP(46342)-Amended.txt  
Output Set: N:\CRF4\08172006\J719587A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 3,9  
Seq#:21; N Pos. 3,9,12  
Seq#:22; N Pos. 3,6,9  
Seq#:23; N Pos. 3,6,9,12  
Seq#:24; N Pos. 3,6,9  
Seq#:25; N Pos. 3,6,9,12  
Seq#:63; Xaa Pos. 10

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:64,65,66

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/719,587A

DATE: 08/17/2006  
TIME: 11:06:16

Input Set : A:\55862-CIP(46342)-Amended.txt  
Output Set: N:\CRF4\08172006\J719587A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0